

Outfall Location: WIN 004

Sample Date: 8/12/2022

Parameter	DeSoto's results	Qualifier	Mosaic's Results	Qualifier	Mosaic Permit Limit	Units	Notes
Arsenic	11		11.1	I, V	50	ug/L	Not all permits have this limit (this limit comes from Fort Green Permit) Note: results were converted from mg/L to ug/L.
Total Nitrogen	2.11		0.882		3	mg/L	Annual Geometric Mean
Total Phosphorus (as P)	0.714		0.637		3,5	mg/L	Limits for 30-day Average and Daily Maximum
Chlorophyll a	24.6		21		Report	mg/m3	mg/m3 is equal to ug/L
Specific Conductivity	610		596		1275	umhos/cm	
Flouride	1.6		1.54		10	mg/L	
pH	7.59		7.28		6.0-8.5	S.U	
Sulfate	180		187		Report	mg/L	No Limit in NPDES Permit. Note: Sulfate in drinking water currently has a secondary maximum contaminant level (SMCL) of 250 milligrams per liter (mg/L), based on aesthetic effects (i.e., taste and odor).
Total Suspended Solids	3.9		3.2		30,60	mg/L	Limits for 30-day Average and Daily Maximum
Fixed Suspended Solids	Not measured		1.20		12,25	mg/L	Limits for 30-day Average and Daily Maximum
Turbidity	Not measured		2.4		29	NTU	Limit is above background
Oil and Grease	1.1	U	1.37	U	5	mg/L	No Limit in NPDES Permit (this limit comes from Wingate Permit)
Gross Alpha	9.74 +/- 2.72		3.6 +/- 2		15	pCi/L	If GA exceeds 15 pCi/L, the sample shall be analyzed for Combined Radium 226&228
Dissolved Oxygen	68.6		69.3		38	% Saturation	minimum

Note: the DeSoto County field sheet indicates that the samples were taken at the Lonesome mine on 8/12/22, however, samples were collected at Wingate D-004

H - Holding times for preparation or analysis exceeded

ND - Not detected at the reporting limit

U - Not detected at or above the adjusted reporting limit

I - The value is between the MDL and the PQL

V - The analyte was detected in both the sample and the associated method blank

J-2 - The reported value failed to meet the established QC criteria for either precision or accuracy. The data usability is not effected.

J-3 - A sample matrix interference is suspected. Does not interfere with data usability.

MDL - Method Detection Limit

PQL - Practical Quantification Limit